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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/037,564	12/21/2001	David W. Beddome	90099010	7106	
75	7590 11/21/2003			EXAMINER	
Ephraim Starr			DUONG, THO V		
Honeywell Inter	national Inc.				
	Garrett Engine Boosting Systems 23326 Hawthorne Boulevard, Suite 200			PAPER NUMBER	
				· · ·	
Torrance, CA	90505		DATE MAILED: 11/21/2003	δ'	

Please find below and/or attached an Office communication concerning this application or proceeding.

				$\wedge K$			
Office Action Summary		Application No.	Applicant(s)				
		10/037,564	BEDDOME ET AL.				
		Examiner	Art Unit				
		Tho v Duong	3743	_			
	The MAILING DATE of this communication a	ppears on the cover shee	et with the correspondence add	lress			
Period fo	• •	LVIC CET TO EVEIDE	AMONTH(S) EDOM				
THE I - Externance - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, ma ply within the statutory minimum o d will apply and will expire SIX (6) ate, cause the application to becom	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this cone ABANDONED (35 U.S.C. § 133).				
1)🖂	Responsive to communication(s) filed on 22	October 2003.					
2a) <u></u>	This action is FINAL . 2b)⊠ Thi	s action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	Claim(s) 1-56 is/are pending in the application	ın.					
•	4a) Of the above claim(s) <u>3-6,9,10,12-31,33-</u>		55 is/are withdrawn from consi	deration.			
5)	Claim(s) is/are allowed.		_				
6)⊠	☑ Claim(s) <u>1,2,7,8,11,32,37,49 and 52</u> is/are rejected.						
7)🖾	Claim(s) 38,53 and 56 is/are objected to.						
8)□	Claim(s) are subject to restriction and	or election requirement	•				
Applicati	on Papers						
9)🖂	The specification is objected to by the Examir	ner.					
10)⊠	The drawing(s) filed on 28 July 2003 is/are: a	a) accepted or b) o	bjected to by the Examiner.				
_	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
•	The oath or declaration is objected to by the f	Examiner. Note the attac	ched Office Action or form PT	O-152.			
-	ınder 35 U.S.C. §§ 119 and 120						
* S 13)	Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bures see the attached detailed Office action for a list acknowledgment is made of a claim for domestince a specific reference was included in the foreign language packnowledgment is made of a claim for domestince was included in the first sentence of	nts have been received. Ints have been received in the have been received in the interest of the certified copies of the certified copies of the sentence of the spectrovisional application has tic priority under 35 U.S.	in Application No een received in this National S not received. S.C. § 119(e) (to a provisional s cification or in an Application I as been received. S.C. §§ 120 and/or 121 since a	application) Data Sheet. a specific			
Attachmen	t(s) e of References Cited (PTO-892)	4) 🗍 Intervi	iew Summary (PTO-413) Paper No(s	•).			
2) Notic	e of References Cited (F10-692) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice	of Informal Patent Application (PTO				

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DETAILED ACTION

Election/Restrictions

Claims 3-6,9-10,12-31,33-36,39-48,50-51 and 54-55 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election of species of figure 9B was made without traverse in Paper No. 7.

Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

The abstract of the disclosure is objected to because the last sentence of the abstract refers to the abstract itself but not the technical disclosure of the invention. Correction is required. See MPEP § 608.01(b).

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 has been indicated to depend on itself, which is claim 8. This dependency renders the scope of the claim indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2,7-8,11, 32,37, 49 and 52 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsuo Shinobu (JP 408029077A). Matsuo discloses (figure 1) a heat exchanger comprising a core (1,4) having a variable length; a support structure (5,20,21), wherein the core is received by the support structure, wherein the support structure comprises a fixed member (5,20) and an attached biased deformable member (21) such as a bellows for accommodating variation in the length of the core while applying a biasing force to the core; the core (1,4) comprises a first end (4a) and a second end (4b), wherein the variable length of the core is set between the first end (4a) and the second end (b); the fixed member (5,20) comprises a first end section (5) and a second end section (20), wherein the first end and the second end sections

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(5,20) are positioned about the core, wherein the first end section (5) abuts the first end (4a) of the core and wherein the bellow (21) is mounted between the second end core (4b) and the second end (5) of the fixed member, so that bellow is deformed as the length of the core varies.

Allowable Subject Matter

Claims 38, 53 and 56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art either taken singular or in combination fails to disclose that the bellow is wider than the core and the bellows comprises two plates with an expandable wall mounted between the plates.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Darragh et al. (US 4,697,633) discloses thermally balanced restraint system for a heat exchanger.

Young et al. (US 4,047,740) discloses internally insulated bellows assembly.

- O. Fisher (US 1,134,324) discloses a feed water heater that has a bellow section disposed between the housing and the header.
- J. F. Grace (US 1,780,477) discloses a condenser that has a expansion joint to support a core of a heat exchanger.

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Corey (US 4,582,126) discloses a heat exchanger that has a mounting member adjusts for the temperature gradient in the assembly and the different coefficients of thermal expansion of the assembly.

Blomgren (US 6,119,766) discloses a plate heat exchanger with connection pipes lined with bellows.

La Haye et al. (US 4,134,449) discloses bellows sealing arrangement.

Suzuki et al. (JP 11294737A) discloses a heat exchanger that has bellows to protect tubes from thermal deformation.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Tho Duong whose telephone number is (703) 305-0768. The examiner can normally be reached on from 9:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet, can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

November 10, 2003

Tho Duong

Theadur

Patent Examiner.